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PATENT Docket No. 391442006300

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Rhea Amid

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Gary BRIDGER et al.

Serial No.:

10/823,494

Filing Date:

April 12, 2004

For:

CXCR4 CHEMOKINE RECEPTOR

BINDING COMPOUNDS

Examiner: Not Yet Assigned

Group Art Unit: 1614

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98

MS Amendment Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO-1449. Pursuant to the USPTO notice dated July 11, 2003, waiving the requirement under 37 C.F.R. §1.98 (a)(2)(i) to provide copies of U.S. Patents and U.S. Published Applications, copies of those references are not submitted. Copies of foreign documents and non-patent literature are submitted herewith. The Examiner is requested to make these documents of record.

	This Inf	formation Disclosure Statement is submitted:
	With	the application; accordingly, no fee or separate requirements are required.
	Befor	e the mailing of a first Office Action after the filing of a Request for Continued
	Exam	ination under § 1.114. However, if applicable, a certification under 37 C.F.R. §
	1.97(e)(1) has been provided.
\boxtimes	Withi	n three months of the application filing date or before mailing of a first Office
	Actio	n on the merits; accordingly, no fee or separate requirements are required.
	Howe	ever, if applicable, a certification under 37 C.F.R. § 1.97(e)(1) has been provided.
	After	receipt of a first Office Action on the merits but before mailing of a final Office
	Actio	n or Notice of Allowance.
		A fee is required. A check in the amount of is enclosed.
		A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached
		to this submission in duplicate.
		A Certification under 37 C.F.R. § 1.97(e) is provided above; accordingly; no fee
		is believed to be due.
	After	mailing of a final Office Action or Notice of Allowance, but before payment of the
	issue	fee.
		A Certification under 37 C.F.R. § 1.97(e) is provided above and a check in the
		amount of is enclosed.
		A Certification under 37 C.F.R. § 1.97(e) is provided above and a Fee Transmittal
		form (PTO/SB/17 is attached to this submission in duplicate.)

Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

The information contained in this Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does

not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the transmittal form is separated from this document and the Patent Office determines that an extension and/or other relief (such as payment of a fee under 37 C.F.R. §1.17(p)) is required, Applicants petition for any required relief including extensions of time and authorize the Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing 391442006300. However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: September 2/, 2004

Respectfully submitted,

Morrison & Foerster LLP 3811 Valley Centre Drive

Suite 500

San Diego, California 92130-2332

Telephone: (858) 314-5413 Facsimile: (858) 720-5125

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Application Number	10/823,494
Filing Date	April 12, 2004
First Named Inventor	Gary BRIDGER
Art Unit	1614
Examiner Name	Not Yet Assigned
Attorney Docket Number	391442006300

ENCLOSURES (Check all that apply)						
Fee Transmittal Form	Drawing(s)	After Allowance communication to Technology Center (TC)				
Fee Attached	Licensing-related Papers	Appeal Communication to Board of Appeals and Interferences				
Amendment/Reply	Petition	Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)				
After Final	Petition to Convert to a Provisional Application	Proprietary Information				
Affidavits/declaration(s)	Power of Attorney, Revocation Change of Correspondence Address	Status Letter				
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X Information Disclosure Statem pages)	nt (3 CD, Number of CD(s)	67 References Return Postcard				
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Response to Missing Parts/ Incomplete Application	Remarks					
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MORRISON & FOERSTER LLP Emily C. Tongco - 46,473						
Signature	Emly Tonger					
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SEP 2 3 2004

Form PTO \$1/449

TEMPORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Docket Number: 391442006300	Application Number: 10/823,494
Applicant:	
Gary E	BRIDGER et al.
Filing Date: April 12, 2004	Group Art Unit: 1614
Mailing Date September 21, 2004	,

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	06/1991	5,021,409	Murrer et al.	514	183	
	2.	12/1996	5,583,131	Bridger et al.	514	183	
	3.	12/1997	5,698,546	Bridger et al.	514	183	
	4.	10/1998	5,817,807	Bridger et al.	540	474	
	5.	12/1999	6,001,826	Murrer et al.	514	183	
	6.	04/2002	6,365,583	MacFarland et al.	514	183	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Transl YES	ation NO
	7.	12/2000	WO 00/02870	WIPO				
	8.	09/2000	WO 00/56729	WIPO				
	9.	03/2002	WO 02/22599	WIPO				
	10.	03/2002	WO 02/22600	WIPO				
	11.	05/2002	WO 02/34745	WIPO				

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

		(
Examiner Initials	Ref. No.	Title
	12.	Abi-Younes, et al., Circ. Res. (2000) 86:131-138
	13.	Alkhatib, et al., Science (1996) 272:1955-1958
	14.	Arai, et al., Eur. J. Haematol. (2000) 64:323-332
	15.	Arenberg, et al., J. Leukocyte Biol. (1997) 62:554-562
	16.	Aiuti, et al., J. Exp. Med. (1997) 185:111-120
	17.	Blaak, et al., Proc. Natl. Acad. Sci. (2000) 97:1269-1274
	18.	Blanco, et al., Antimicrobial Agents and Chemother. (2000) 44:51-56
	19.	Bleul, et al., J. Exp. Med. (1998) 187:753-762
	20.	Bleul, et al., Nature (1996) 382:829-833
5374345	NIED.	D. TET CONVENIENCE

EXAMINER:

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EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-1449		Docket Number: 391442006300	Application Number: 10/823,494	
	ON DISCLOSURE CITATION AN APPLICATION	Applicant: Gary BRIDGER et al.		
(U.	se several sheets if necessary)	Filing Date: April 12, 2004	Group Art Unit: 1614	
		Mailing Date September 21, 2004		
21.	Bradstock, et al., Leukemia (2000)	14:882-888		
22.	Bridger, et al., J. Med. Chem. (199	99) 42:3971-3981		
23.	Burger, et al., Blood (1999) 94:365	8-3667		
24.	Carroll, et al., Science (1997) 276:2	273-276		
25.	Cocchi, et al., Science (1995) 270:	1811-1815		
26.	Connor, J. Virol. (1994) 68:4400-4	1408		
27.	Deng. et al., Nature (1996) 381:66	1-666		
28.	Donzella, et al., Nature Medicine (1998) 4:72-77		
29.	Dragic, et al., Nature (1996) 381:66	67-673		
30.	Egberink, et al., J. Virol. (1999) 73	3:6346-6352		
31.	Eitner, et al., Transplantation (1998	3) 66:1551-1557		
32.	Fedyk, et al., J. Leukocyte Biol. (19	999) 66:667-673		
33.	Feng, et al., Science (1996) 272:87	2-877		
34.	Gonzalo, et al., J. Immunol. (2000)) 165:499-50		
35.	Gupta, et al., J. Biolog. Chem. (199	98) 273(7):4282-4287		
36.	Ishii, et al., J. Immunol. (1999) 16	3:3612-3620		
37.	Lataillade, et al., Blood (2000) 95:	756-768		
38.	Liu, et al., Cell (1996) 86:367-377			
39.	Ma, et al., Immunity (1999) 10:463	3-471		
40.	Maekawa, et al., Internal Medicine	(2000) 39:90-100		
41.	Michael, et al., Nature Med. (1997	7) 3:338-340		
42.	Michael, et al., J. Virol. (1998) 72:	6040-6047		
43.	Miedema, et al., Immune. Rev. (19	94) 140:35-72		
44.	Moore, et al., J. Invest. Med. (1998)	8) 46:113-120		
45.	Moore, et al., Trends Cardiovasc. N	Med. (1998) 8:51-58		
46.	Murdoch, et al., (2000) Blood 95:3	032-3043		
47.	Nagasawa, et al., Nature (1996) 383	382:635-638		
48.	Nagase, J. Immunol. (2000) 164:59	935-5943		
49.	Nanki, et al., J. Immunol. (2000) 1	64:5010-5014		
50.	Oberlin, et al., Nature (1996) 382:8	33-835		
51.	O'Brien, et al., Lancet (1997) 349:	1219		
EXAMINER:		DATE CONSIDERED:		
	al if citation considered, whether or not the citation considered. Include a copy of this form with n		a line through the citation if not in	

Form PTO-1449		Docket Number: 391442006300	Application Number: 10/823,494			
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		Mailing Date September <u>21</u> , 2004				
52.	Peled, et al., Science (1999) 283:84					
53.	Peled, et al., Blood (2000) 95:3289-					
54.	Ponath, Exp. Opin. Invest. Drugs (1	. <u> </u>				
55.	Rana, et al., J. Virol. (1997) 71:321	· · · · · · · · · · · · · · · · · · ·				
56.	Salcedo, et al., Am. J. Pathol. (199					
57.	Samson, et al., Nature (1996) 382:7					
58.	Schols, et al., J. Exp. Med. (1997) 1					
59.	Schols, et al., Antiviral Research (1	<u> </u>				
60.	Schuitemaker, et al., J. Virol. (1992)					
61.	Seghal, et al., J. Surg. Oncol. (1998)) 69:99-104				
62.	Simmons, et al. J. Virol. (1996) 70	:8355-8360				
63.	Simmons, et al., J. Virol. (1988) 72	2:8453-8457				
64.	Tachibana, et al., Nature (1998) 393	3:591-594				
65.	Tersmette, et al., J. Virol. (1988) 6					
66.	Theodorou, et al., Lancet (1997) 34	9:1219-1220				
67.	Viardot, et al., Ann. Hematol. (199	8) 77:193-197				
68.	Wyatt, et al., Science (1998) 280:18	384-1888				
69.	Xia, et al., J. Neurovirology (1999)	5:32-41				
70.	Yssel, et al., Clinical and Experime	ntal Allergy (1998) 28:104-	109			
71.	Zhang, et al., AIDS Res. Hum. Retr	oviruses (1997) 13:1357-13	66			
72.	Zhang, et al., J. Virol. (1998) 72:93	307-9312				
73.	Zhang, et al., J. Virol. (1999) 73:34	143-3448				
EXAMINER:		DATE CONSIDERED:				
	al if citation considered, whether or not the citation ot considered. Include a copy of this form with n		line through the citation if not in			